

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: February 1, 2008

RFS NO. 2008-02

(To be filled in by WATERMASTER)

TO: Joe Oliver

FROM: Robert Jaques

Services Needed and Purpose:

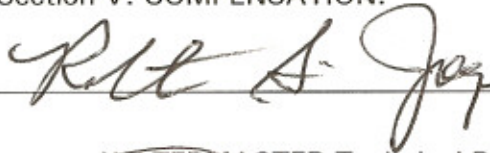
Perform water level and water quality data collection for specified wells within the Seaside Basin in accordance with the Scope of Work contained in Attachment 1.

Completion Date: The work of this RFS No. 2008-02 shall be completed on an as-directed basis from the Watermaster during 2008. All work under this RFS will be completed not later than December 31, 2008.

Method of Compensation: Time and Expense Payment Method (As defined in Section V of Agreement.)

Total Price Authorized by this RFS: \$17,460 (See Attachment 1 for details regarding this Total Price, and how costs will be authorized on an as-directed basis. Cost is authorized only when evidenced by signature below.)

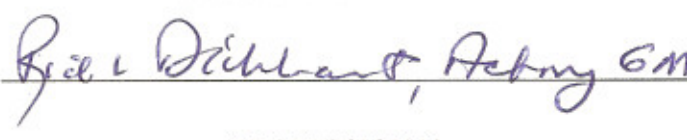
Total Price may not be exceeded without prior written authorization by WATERMASTER in accordance with Section V. COMPENSATION.

Requested by:  Date: _____
2/6/08

WATERMASTER Technical Program Manager

Authorized by:  Date: _____
2/6/08

WATERMASTER Chief Executive Officer

Agreed to by:  Date: _____
2/5/08

PROFESSIONAL

ATTACHMENT 1

Scope of Work for RFS No. 2008-02

Background:

The WATERMASTER Board authorized its staff to contract with the PROFESSIONAL to collect water level and water quality data from certain wells located within the Seaside Basin, if the owners/operators of those wells expressed this desire to the WATERMASTER. The procedures for this data collection are described in the Notice to Well Owners that is contained in Exhibit "A" to this Attachment 1.

This RFS No. 2008-02 authorizes PROFESSIONAL to perform this data collection work on an as-directed basis, with formal authorization from the WATERMASTER to the PROFESSIONAL being required prior to the PROFESSIONAL performing such work on any specified well. This will provide the WATERMASTER with full control over which wells are provided this service, as well as over the costs for having this work performed.

The wells to which these services may be provided are listed in Table 1.

The estimated costs, per well, to perform these services are as follows:

Monthly Water Levels - It is estimated that it will take approximately 0.5 hour/well to perform a water level measurement. This time estimate is based on the assumption that the water level measurements will be performed at the time that a field person is already out and about collecting data from other wells, and the fact that the distance between wells located within the Basin is not that great. This labor would be billed at the field rate of \$70/hr, so the estimated cost per water level measurement would be \$35.

The total estimated cost would be \$420 per year per well for 12 monthly measurements.

Annual Water Quality Sampling - Assuming that annual water sample collection would coincide with water level collection at a well, it is estimated that it will take approximately 0.5 hr to collect the water quality sample, including sampling time, bottle labeling, custody forms, delivery to laboratory, etc. There will also be an estimated 0.5 hr for receipt, review and computer entry of laboratory data, and an estimated \$200 per sample for the laboratory analysis. The sampling work would be billed at the field rate of \$70/hr, so the estimated cost per annual water quality sample would be \$70 for labor, and \$200 for laboratory services, for a total cost per sample of \$270. One sample is needed to represent water quality from the fall of 2007, and one for the fall of 2008, so two water quality samples will need to be collected and analyzed in 2008. The sample to represent 2007 water quality will be collected as soon as possible in 2008, most likely at the time the first water level measurement is made. The 2008 sample will be collected in the fall of 2008. Thereafter, only one sample per year will be required.

The total estimated cost for collecting and analyzing the two samples per well in 2008 is \$540.

Combined Water Level Measurements and Water Quality Sampling: For combined water level and water quality monitoring, the total estimated cost, per well, for the initial 12-month period is \$960.

In the event all of the wells listed in Table 1 asked to have data collected for them by the WATERMASTER, the total estimated cost would be:

| | | |
|--|---|-----------------|
| Potential No. of Wells Needing Water Level Data Collected = 21 @ \$420 | = | \$ 8,820 |
| Potential No. of Wells Needing Water Quality Data Collected = 16 @ \$540 | = | <u>\$ 8,640</u> |
| TOTAL = | | \$17,460 |

Table 1

| APN | DETAILS | COMPANY | Watermaster "Producer" Well? | MPWMD Assigned Well # | Monthly Water Levels Required | Monthly Water Levels Being Collected? | Annual Water Quality Analyses Required? | Annual Water Quality Data Being Collected? |
|---------------------------------|---------------------------|----------------------------------|------------------------------|-----------------------|-------------------------------|---------------------------------------|---|--|
| Within MPWMD Boundaries | | | | | | | | |
| 012-432-004 | CAW - Plumas #4 | California American Water Co. | Y | T15S/R1E-27Jg | Y | Y | Y | N |
| 012-843-013 | CAW - Darwin | California American Water Co. | Y | T15S/R1E-23Ea | Y | Y | Y | N |
| 011-041-018 | CAW - Military | California American Water Co. | Y | T15S/R1E-14Nd | Y | Y | Y | N |
| 011-061-004 | CAW - Ord Grove #2 | California American Water Co. | Y | T15S/R1E-23Bc | Y | Y | Y | N |
| 011-071-018 | CAW - New Luzern | California American Water Co. | Y | T15S/R1E-23De | Y | Y | Y | N |
| 011-091-017 | CAW - Playa #3 | California American Water Co. | Y | T15S/R1E-22Bc | Y | Y | Y | N |
| 011-091-017 | CAW - Playa #4 | California American Water Co. | Y | T15S/R1E-22Bf | Y | Y | N | |
| 011-493-028 | CAW - Paralta | California American Water Co. | Y | T15S/R1E-14Ra | Y | Y | Y | N |
| 031-151-010 | Reservoir Well | City of Seaside | Y | T15S/R1E-13Na | Y | ? | Y | N |
| 031-231-062 | Coe Avenue Well | City of Seaside | Y | T15S/R1E-14Ma | Y | ? | Y | N |
| 011-181-014 | Public Works Corp. Yard | City of Sand City | Y | T15S/R1E-22Ed | Y | ? | Y | N |
| 011-011-020 | Cypress Pacific | Monterey Peninsula Engineering | Y | T15S/R1E-22Dd | Y | N | Y | N |
| 011-236-010 | Robinette -Design Ctr. | City of Sand City | Y | T15S/R1E-22Mc | Y | ? | Y | N |
| 011-041-043 | (in front of Target) | DBO Development | Y | T15S/R1E-22Ce | Y | N | N | |
| 011-061-022 | MMP prod well | Mission Memorial Park | Y | T15S/R1E-23Ab | Y | Y | N | |
| 011-061-022 | PRTIW -operated by MMP | Mission Memorial Park | Y | T15S/R1E-23Ac | Y | N | Y | N |
| 011-501-014-500 | | Security National Guaranty, Inc. | Y | T15S/R1E-15K1 | Y | N | Y | N |
| 011-532-005 | | Granite Rock Company | Y | T15S/R1E-22Eb | Y | ? | N | |
| 012-511-005 | Shea Well | City of Del Rey Oaks | Y | T15S/R1E-26Mc | Y | N | N | |
| 012-115-017 | City #4 | Seaside Municipal Water System | Y | T15S/R1E-23Gc | Y | ? | Y | ? |
| 012-653-003 | City #2 | Seaside Municipal Water System | Y | T15S/R1E-23Pb | Y | ? | N | |
| 012-664-017 | City #1 | Seaside Municipal Water System | Y | T15S/R1E-23Lb | Y | ? | N | |
| 012-115-017 | City #3 | Seaside Municipal Water System | Y | T15S/R1E-23Ga | Y | ? | Y | ? |
| 173-071-052 | East Well (Lot #9) | CAW - Bishop Unit | Y | T16S/R2E-05Fa | Y | N | N | |
| 173-072-034 | well lot Bishop #1 (west) | CAW - Bishop Unit | Y | T16S/R2E-05Ea | Y | Y | N | |
| 173-072-041 | well lot Bishop #2 (east) | CAW - Bishop Unit | Y | T16S/R2E-05Fb | Y | Y | N | |
| 416-111-002 | Mutual | CAW - Hidden Hills Unit | Y | T16S/R2E-09Cb | Y | N | N | |
| 416-111-004 | Standex | CAW - Hidden Hills Unit | Y | T16S/R2E-09Cc | Y | N | N | |
| 416-111-004 | Bay Ridge | CAW - Hidden Hills Unit | Y | T16S/R2E-09Cd | Y | Y | N | |
| 259-031-011 | RR#7 | CAW - Ryan Ranch #7 | Y | T15S/R1E-36Nb | Y | Y | N | |
| 259-031-012 | RR#8 | CAW - Ryan Ranch #8 | Y | T16S/R1E-01Cb | Y | Y | N | |
| 259-031-012 | RR#11 | CAW - Ryan Ranch #11 | Y | T16S/R1E-01Cd | Y | Y | N | |
| 173-071-056 | Old Main Gate (Lot #12) | Pasadera - New Cities Developme | Y | T16S/R2E-05Mg | Y | Y | N | |
| 173-071-051 | Paddock #1(Lot #11) | Pasadera - New Cities Developme | Y | T16S/R2E-05Mf | Y | N | N | |
| 203-031-034 | 01-349 | York School | Y | T15S/R1E-36Qa | Y | ? | N | |
| 173-071-048 | (new #12) | Laguna Seca Golf Resort | Y | T16S/R2E-06Hb | Y | Y | N | |
| 173-071-048 | (racetrack) | Laguna Seca Golf Resort | Y | T16S/R2E-06Ga | Y | Y | N | |
| Outside MPWMD Boundaries | | | | | | | | |
| 173-011-025, -026 | LS Cnty Park #3 | MPPRD | Y | T16S/R2E-05Gd | Y | ? | N | |
| 173-011-025, -026 | LS Cnty Park #4 | MPPRD | Y | T16S/R2E-05Ge | Y | ? | N | |
| | | | | | Y = 38 | N or ? = 21 | Y = 16 | N or ? = 16 |

EXHIBIT "A"

NOTICE OF REQUEST FOR WATER WELL DATA January 17, 2008

You are receiving this Notice because the Seaside Groundwater Basin Watermaster's records indicate you are the owner or operator of a water well located within the Seaside Groundwater Basin.

The Seaside Groundwater Basin Watermaster (Watermaster) is responsible for enforcing and administering the provisions of the adjudication Decision for the Seaside Groundwater Basin (Basin) located in northern Monterey County, California. This Decision was issued by the Superior Court in Monterey County on March 27, 2006 and amended on February 9, 2007.

Concerns about overpumping of groundwater from the Basin, and the potential for this to lead to seawater intrusion, led to the Court's issuing of the Decision. The Decision requires that certain actions be taken by the Watermaster to preserve and protect the groundwater resources within the Basin. Two of these requirements are:

1. All active and inactive production wells in the basin must have static (i.e., non-pumping) water levels collected and recorded a minimum of once per month.
2. All active production wells in the coastal subareas of the basin must have a water quality sample from each well collected and analyzed by a state-approved (certified) laboratory for the full general inorganic mineral suite a minimum of once per year.

An active production well is defined as any well that has extracted water within the last year for a beneficial use, such as landscape irrigation, commercial uses, or drinking water. An inactive production well is defined as any well that could extract water for a beneficial use, but which has not extracted water within the last year and currently either has an inoperable pump, or no pump at all, and is therefore not currently capable of extracting water for a beneficial use.

The Decision states that it shall be the responsibility of each owner/operator of the well(s) to report water level and quality analytical results to the Watermaster for inclusion of these data in the consolidated groundwater resource database. This database is being developed by the Watermaster pursuant to the Decision.

The check box on the following page shows what our records indicate with regard to receipt of the required data from you for the indicated water well(s) located within the Seaside Groundwater Basin. If the data has not been submitted, you are hereby requested to provide the indicated 2006 and 2007 data to the Watermaster, as well as any prior well data of this type.

Water System Name: _____

Well Name: _____

Well Status: Active Inactive

Required Data to be Submitted: Monthly Static Water Levels Annual Water Quality

Has Data Has Been Submitted to the Watermaster as Required? Yes No

Are There Any Extenuating Circumstances Pertaining to this Well for Which You Believe the Well Should Not be Required to Submit this Data?: Yes No

If the answer to this question is "Yes" please provide a detailed explanation of these circumstances, and why the data cannot, or should not, be submitted:

For ongoing compliance, there are two ways for you to obtain and submit the required data to the Watermaster:

1. Obtain the data yourself, and submit it to the Watermaster. This will likely involve (1) either making the water level measurements yourself, or having another qualified party do this for you, and (2) taking a water quality sample and sending it to a state-approved laboratory for analysis.
2. Have the Watermaster obtain the data for you, and pay the Watermaster for its costs to provide this service.

If you choose to obtain the data yourself, you will need to have the skills and equipment to make the water level measurements, and to collect a representative sample for water quality testing. A brief description of the procedures for performing each of these tasks is contained in Attachment A to this Notice. A listing of the water quality parameters for which the annual water sample must be analyzed are contained in Attachment B. These parameters are standard tests performed by many water quality laboratories. Water level data are to be collected once each month, and are to be submitted to the Watermaster within 15 days after the data are collected. Water quality

sampling is to be performed in September or October, and the water quality results are to be submitted to the Watermaster not later than October 15 of each year. **If you choose to obtain the data yourself, please send written notification of this to the Watermaster not later than January 31, 2008.**

If you choose to have the Watermaster obtain the data on your behalf, you will need to provide written authorization to the Watermaster for this purpose. This can be done by filling out and returning the form contained in Attachment C to this letter, and returning it to the Watermaster along with your check made out in the appropriate amount per well, as described in Attachment C. **If you choose to have the Watermaster obtain the data on your behalf, please complete and return the form in Attachment C, along with your check, to the Watermaster not later than January 31, 2008.** Note: Well owners/operators who are currently collecting this data themselves may also ask to have the Watermaster collect the data for them, under the same terms and conditions set forth in Attachment C.

The Watermaster has been ordered by the Court to provide a report by February 28, 2008 on progress being made to collect the required data. The responses received from each affected well owner/operator will be used in the preparation of that report. Any well owners from whom no definitive response has been received will be noted in that report. Since the Court has the power to impose sanctions on any well owner/operator that does not carry out the requirements contained in the Decision, it is imperative that all affected well owners respond to this Notice.

If you have any questions regarding this Notice, please contact the Seaside Groundwater Basin Watermaster at (831) 641-0113, or by mail at the address shown on the letterhead.

Thank you for your attention to this Notice.

Dewey D. Evans
Chief Executive Officer

Attachments (3)

ATTACHMENT A

OUTLINE OF PROCEDURES TO MEASURE STATIC WATER LEVELS AND TO COLLECT A SAMPLE FOR WATER QUALITY ANALYSIS

Water Level Measurement

An acceptable method for collecting static (i.e., non-pumping) water level measurements is with the use of a coaxial electric water level sounding device, such as shown in Figure 1. All water level measurements must be referenced to a described point at the wellhead. For active production wells, the well must be shut down 24 hours prior to water level measurement to ensure an accurate static water level reading. All measurements should be recorded to the nearest one hundredth of a foot (e.g., depth to water from wellhead reference point = 85.94 feet).

Water Sample Collection

Samples are to be collected for water quality analysis only from active production wells. Active wells have operable pumps and motors, and are therefore able to pump the water that will be used for the water quality analysis. Therefore, no portable or temporary pumping equipment or piping should be necessary.

The volume of water removed from each well prior to sampling is should be at least three casing volumes, consistent with standard sampling protocol. This is accomplished by calculating the casing volume and then running the pump long enough to pump the required pre-sampling volume. This purges the well of water that may have been residing in it for some period of time, so that the sample collected for analysis will represent the current quality of the water being pumped from the underlying aquifer. A representative wellhead configuration for collection of water quality samples is shown in Figure 2.

Sampling is supplemented by field measurement of several indicator parameters that are collected during pumping, which ensures that water quality has stabilized prior to sample collection. An example of the recordation of field data is provided on the field ground water sampling form in Figure 3.

Once the samples are collected, they are to be sent or taken to a state-certified laboratory for analysis. The laboratory should be contacted to determine the volume of sample they will need to be provided in order to perform the required analyses. The laboratory should also be consulted with regard to proper "chain-of-custody" sample submittal forms, proper sample collection techniques, and suitable sample containers, to ensure that the sample is not contaminated during the sampling process.

Figure 1. Representative Method for Collecting Static Water Level Measurements

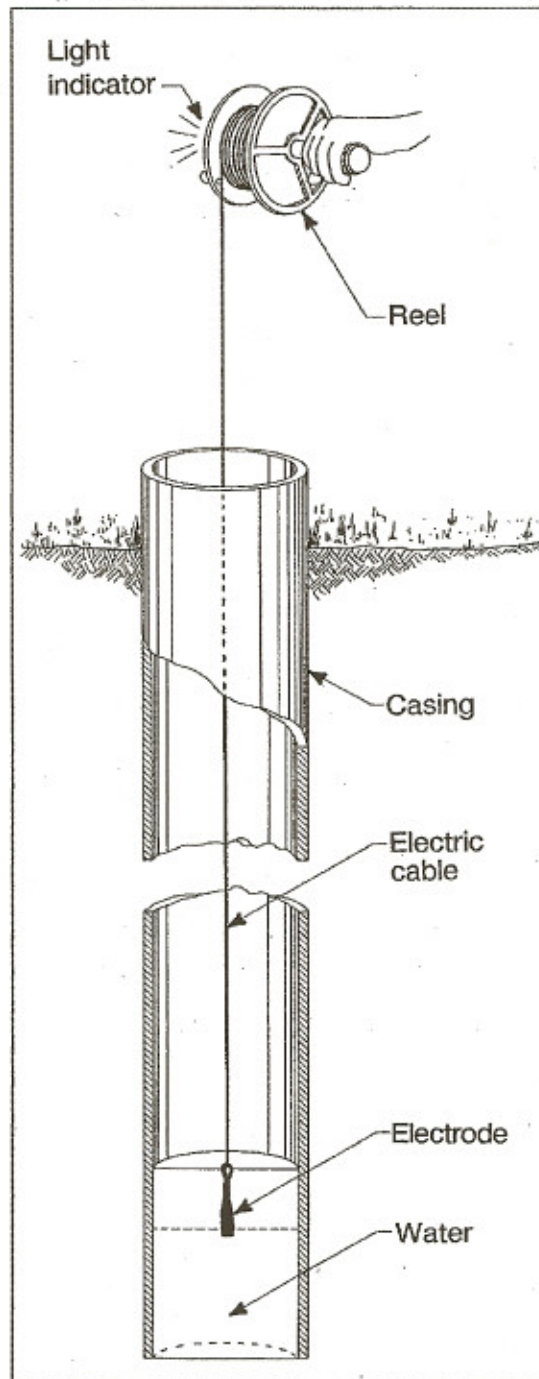
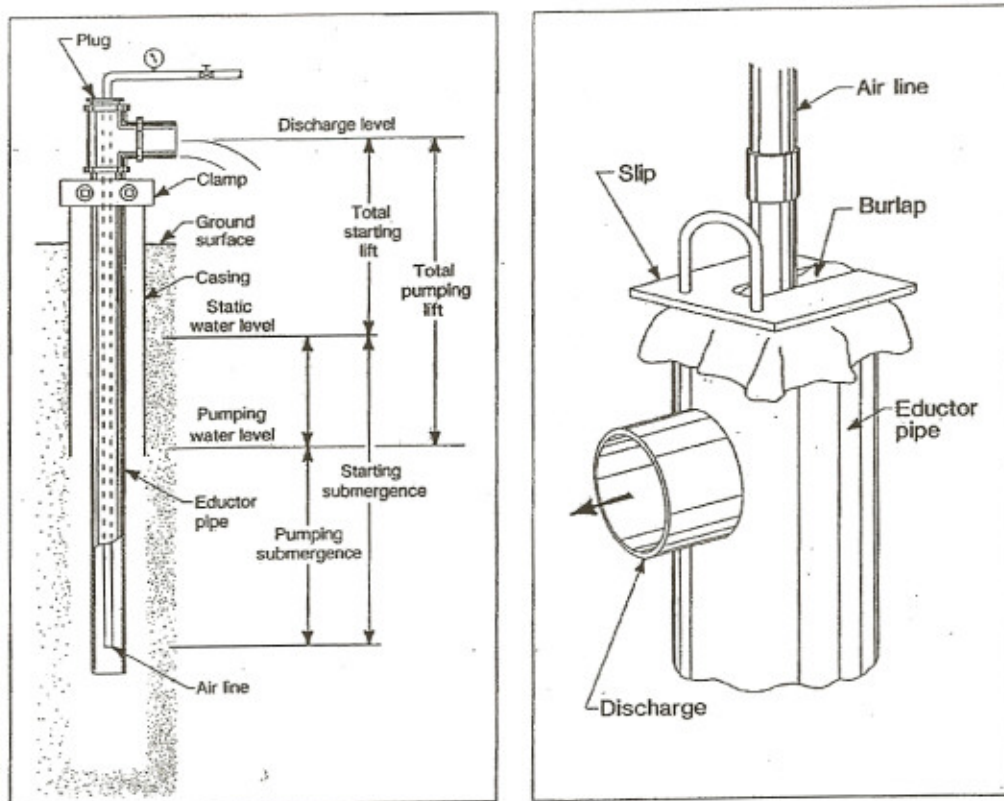


Figure 16.12. Electric sounder for measuring depth to water consists of electrode, two-wire cable, and a light which indicates a closed circuit when electrode touches water.

From: Groundwater and Wells 2nd Ed., 1986, pg. 549.

Figure 2. Representative Wellhead Configuration for Water Quality Sample Collection



ATTACHMENT B

Listing of the Water Quality Parameters for Which Annual Water Samples Must be Analyzed

The water quality constituents that must be measured and reported for the annual water quality analyses are:

Specific Conductance (micromhos/cm)

Total Alkalinity (as CaCO₃)

pH

Chloride

Sulfate

Ammonia Nitrogen (as NH₃)

Nitrate Nitrogen (as NO₃)

Total Organic Carbon

Calcium

Sodium

Magnesium

Potassium

Iron

Manganese

Orthophosphate

Total Dissolved Solids

Hardness (as CaCO₃)

Boron

Bromide

Fluoride

ATTACHMENT C

Authorization to Have the Watermaster Obtain Well Data

The following is an estimate of the costs the Watermaster anticipates incurring, if it is authorized to collect water level and water quality data from a water well located within the Seaside Groundwater Basin.

Monthly Water Levels - It is estimated that it will take approximately 0.5 hour/well to perform a water level measurement. This time estimate is based on the assumption that the water level measurements will be performed at the time that a field person is already out and about collecting data from other wells, and the fact that the distance between wells located within the Basin is not that great. This labor would be billed at the field rate of \$70/hr, so the estimated cost per water level measurement would be \$35.

The total estimated cost would be \$420 per year per well for 12 monthly measurements.

Annual Water Quality Sampling - Assuming that annual water sample collection would coincide with water level collection at a well, it is estimated that it will take approximately 0.5 hr to collect the water quality sample, including sampling time, bottle labeling, custody forms, delivery to laboratory, etc. There will also be an estimated 0.5 hr for receipt, review and computer entry of laboratory data, and an estimated \$200 per sample for the laboratory analysis. The sampling work would be billed at the field rate of \$70/hr, so the estimated cost per annual water quality sample would be \$70 for labor, and \$200 for laboratory services, for a total cost per sample of \$270. One sample is needed to represent water quality from the fall of 2007, and one for the fall of 2008, so two water quality samples will need to be collected and analyzed in 2008. The sample to represent 2007 water quality will be collected as soon as possible in 2008, most likely at the time the first water level measurement is made. The 2008 sample will be collected in the fall of 2008. Thereafter, only one sample per year will be required.

The total estimated cost for collecting and analyzing the two samples per well in 2008 is \$540.

Combined Water Level Measurements and Water Quality Sampling: For combined water level and water quality monitoring, the total estimated cost, per well, for the initial 12-month period is \$960.

I am the Party responsible for the well(s) described below, and I am empowered to provide this Authorization to the Seaside Groundwater Basin Watermaster. (List all wells to which this authorization applies).

Water System Name (if applicable): _____

Well Name: _____

Well Name: _____

Well Name: _____

I hereby authorize the Seaside Groundwater Basin Watermaster (Watermaster) and/or its agents to perform the services indicated below on my behalf. I agree to pay the Watermaster all of its reasonable costs incurred in the performance of this work. I agree to provide the Watermaster with reasonable access to the well(s) for the purpose of performing these services, and to provide such information and/or assistance as is requested by the Watermaster in order for the Watermaster to perform these services.

I have attached a check made out to the Seaside Groundwater Basin Watermaster in the appropriate amount (based on the estimated costs described on the preceding page) per well, as an advance payment toward the cost of annual collection of data on my well(s). Should the Watermaster's actual costs to perform these services differ from the amount of this advance payment, the Watermaster will either bill me for the additional amount owed, or will refund me the amount of overpayment, whichever is appropriate, at the end of the 12-month period for which these services will be provided.

Services to be Performed by the Seaside Groundwater Basin Watermaster

(Note: The well owner/operator should put a check mark in the box for each service it wishes the Watermaster to provide)

Visit each well site listed above once each month during calendar year 2008 and make a static water level measurement.

Visit each well site listed above twice during calendar year 2008 and collect and analyze one sample at each visit for water quality analysis.

Record and report the data obtained under items 1 and 2 in the Quarterly and/or Annual Reports the Watermaster prepares. Provide a copy of the information collected from the well owner's/operator's well to the well owner/operator.

Signed: _____ Date: _____
(Signature of Responsible Party)

Printed Name of Signatory: _____